

ELABORATE

GUIDED PRACTICE

ESTIMATED TIME  15 MIN

Water Erosion

GROUPING

small groups

MATERIALS PER GROUP

- tray
- soil
- cup of water

OBJECTIVES

Children will explain how water changes land.

TEACHER BACKGROUND

The energy of the moving water can push bits of rock downstream. It can also make grooves into the banks of streams with weathered rocks. As the water moves faster, its energy is high and can push bigger rocks. As the water moves more slowly, the energy is low and water can only push small grains of sand. Ocean waves can carry away bits of rocks.




SAFETY PRECAUTIONS


- Ask children to wear an apron, goggles, and gloves during the practice.
- Ask children to wash their hands after the practice.

GUIDED PRACTICE


MATERIALS



tray




soil



a cup of water

Water Erosion



Ask a question: How can water change a landform?

1

Put the soil in the tray and shape it like a mountain or hill. Pour water slowly on the soil.

2

Observe
What happens to the soil?

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SCIENCE SKILLS

By the end of this practice, children will use the following science skills:

- Observe
- Record data
- Draw a conclusion



MULTIPLE INTELLIGENCE ACTIVITY

Use the Multiple Intelligence Activity for this lesson to enrich and engage the different learning styles of each student.

3 Record your observations.

4 Draw a conclusion.

How did water change the soil?

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STEPS

- 1 Prepare the workstations with the materials and have children work in small groups. Guide the groups to make a pile of dirt on the tray. Encourage children to pour water slowly on the pile of dirt.
- 2 **Observe.** Guide groups to observe what happens to the dirt after the water is poured on it.
- 3 **Record.** Have groups record their observations. They can draw pictures or write sentences.
Possible answer: The water pushed the mud away.
Drawings will vary. Accept all reasonable drawings.
- 4 **Draw a conclusion.** Have groups work together to answer the question.
Possible answer: It eroded the dirt, just like water can erode land.

EXPECTED RESULTS

The children will observe that when they are pouring water on the mud, the water pushes the mud away.

EXPLANATION

The energy of the moving water causes the mud to move away.

CONCLUSION

Water can erode land.